

IN THE CLAIMS:

Please cancel Claims 9 - 14, without prejudice, and amend Claim 1 as follows, set forth in the new amendment format:

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1. (Currently Amended) A reverse-layered catalyzed adsorber system, comprising:  
a catalyst washcoat supported by a catalyst substrate; and  
an adsorption material disposed on at least a portion of the catalyst material layer,  
wherein the catalyst washcoat is disposed between the adsorption material and the catalyst substrate.

2. (Original) The reverse-layered catalyzed adsorber system recited in Claim 1, wherein the catalyst washcoat further comprises a catalyst selected from the group consisting of platinum, palladium, rhodium, iridium, osmium, ruthenium, titanium, zirconium, yttrium, cerium, nickel, copper, and the like, and oxides, mixtures, and alloys comprising at least one of the foregoing metals.

3. (Original) The reverse-layered catalyzed adsorber system recited in Claim 2, wherein the catalyst washcoat further comprises a material selected from the group consisting of alumina, silica, titania, magnesia, zirconia, beryllia, lanthana, ceria, barium oxide, barium sulfate, and alloys and mixtures comprising at least one of the foregoing materials.

4. (Original) The reverse-layered catalyzed adsorber system recited in Claim 3, wherein the alumina is selected from the group consisting of delta phase alumina, gamma phase alumina, mixtures comprising at least one of the foregoing aluminas.

5. (Original) The reverse-layered catalyzed adsorber system recited in Claim 3, wherein the adsorption material further comprises a material selected from the group consisting of zeolites, alumina, silica, titania, and mixtures comprising at least one of the foregoing materials.

6. (Original) The reverse-layered catalyzed adsorber system recited in Claim 1, further comprising about 20 wt% to about 80 wt% adsorption material, based upon the total weight of the adsorption material and catalyst washcoat.

7. (Original) The reverse-layered catalyzed adsorber system recited in Claim 6, further comprising about 40 wt% to about 60 wt% adsorption material, based upon the total weight of the adsorption material and catalyst washcoat.

8. (Original) The reverse-layered catalyzed adsorber system recited in Claim 6, wherein the adsorption material further comprises a material selected from the group consisting of zeolites, alumina, silica, titania, and mixtures comprising at least one of the foregoing materials.

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